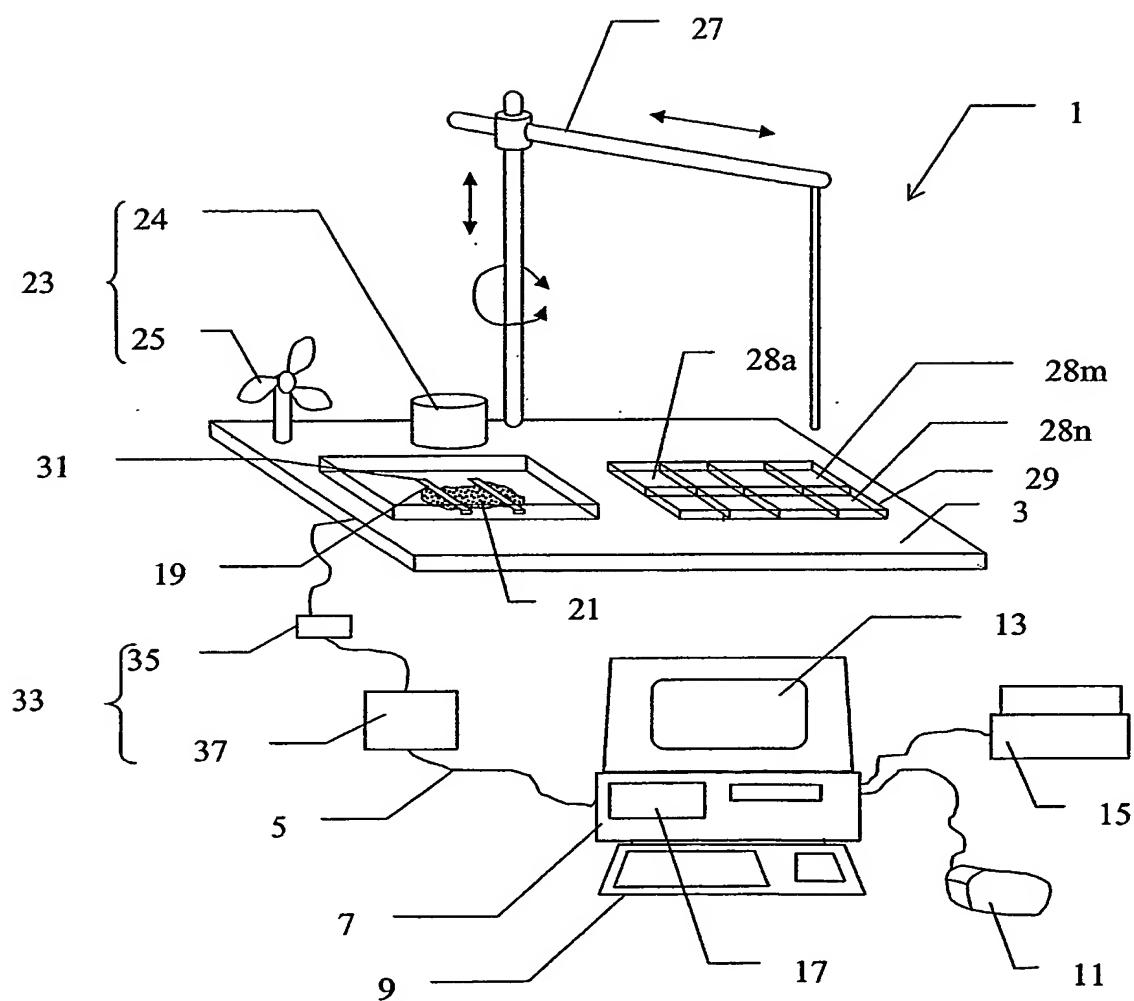


Fig. 1



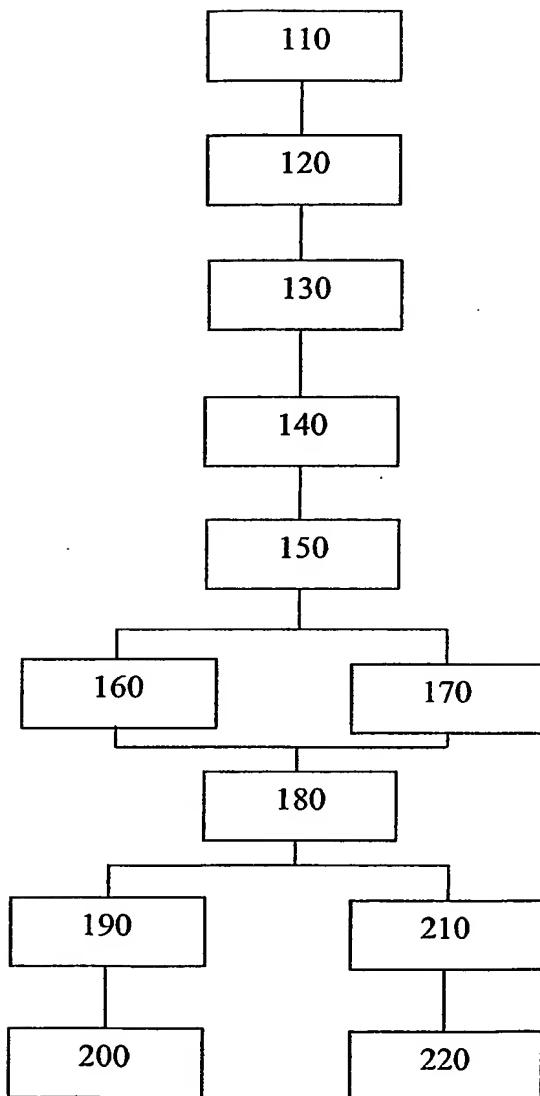


Fig. 2

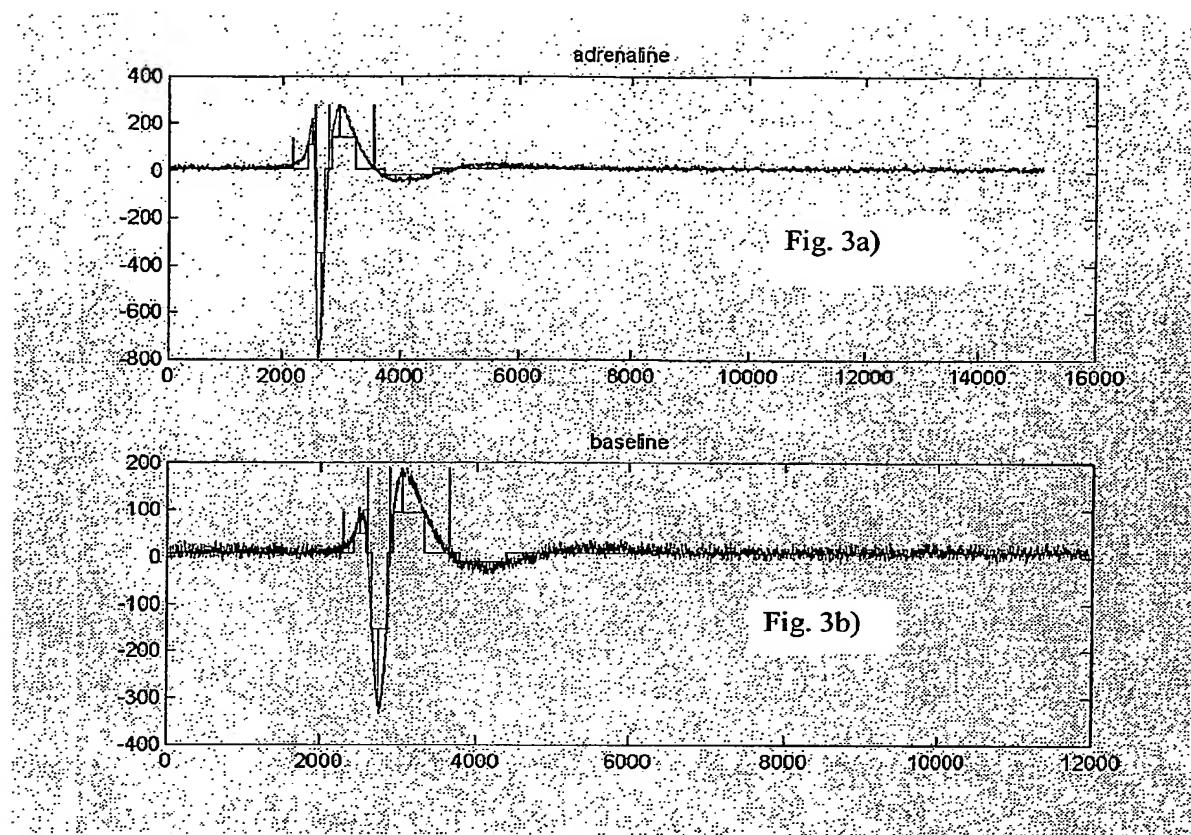


Fig 3c)

Table 1: parameters extracted during this study is shown below. Due to the way the data is presented, the first table has rows that are contiguous with left sides (end of the table) and rows that are contiguous with right sides of the next table (beginning of table rows).

Change in Wave LengthRatio	Peak 1PositionChange	HeightRatio	FWHMRatio	Dip 1PositionChange	HeightRatio	FWHMRatio
1.26356	0.00000	2.31518	0.74658	-100.00000	2.23913	0.74731
0.97500	-620.00000	0.16079	0.54412	276.00000	0.56816	1.33166
0.86350	-12.00000	2.79385	1.21930	-50.00000	2.56919	0.94203
0.90889	0.00000	2.80435	0.65625	-158.00000	1.71665	0.67797
0.86531	0.00000	0.42693	1.90909	33.00000	0.99841	1.26042
0.95762	-3.00000	0.81525	1.15328	21.00000	0.96773	1.05325
1.14658	-72.00000	0.57479	0.91534	96.00000	0.75630	1.26630
0.76511	-53.00000	0.56172	1.57092	179.00000	0.91794	1.08383
0.89954	0.00000	0.53156	1.53383	164.00000	0.79308	1.30075
0.89875	34.00000	0.46560	0.83246	287.00000	0.77347	1.19231
0.80917	0.00000	2.89497	0.58781	-303.00000	0.94700	0.93976
0.61097	0.00000	1.97608	0.67935	-60.00000	1.10590	0.89881
0.97303	0.00000	0.74552	1.04965	79.00000	0.84397	1.16477
1.37586	-10.00000	0.39407	2.63636	19.00000	0.98129	0.70253
0.82038	0.00000	1.21668	0.96610	-24.00000	1.12246	1.22523
0.28447	0.00000	0.32602	4.87500	46.00000	3.34269	2.84722
1.40167	0.00000	1.57312	0.79310	-30.00000	1.29054	0.83846
1.03628	28.00000	0.73414	0.77949	13.00000	0.89436	1.02055
1.31690	0.00000	1.30378	1.16667	1.00000	1.19368	1.05435
0.70153	0.00000	0.98199	0.73980	-45.00000	1.12142	0.89634
0.67451	33.00000	0.50194	1.19277	122.00000	0.72518	1.48951
1.48014	-1.00000	1.43728	0.61905	-11.00000	1.19961	0.94495
Peak 2PositionChange	HeightRatio	FWHMRatio	Dip 2PositionChange	HeightRatio	FWHMRatio	StartPositionChange
-90.00000	1.53632	0.98492	-77.00000	1.47903	1.35000	-122.00000
91.00000	0.94925	1.02003	1183.00000	2.53731	1.22554	-486.00000
-131.00000	1.69789	1.11803	-236.00000	2.17211	0.67421	-140.00000
-140.00000	0.95408	1.02087	132.00000	1.04399	1.00366	125.00000
84.00000	0.92569	1.04156	1383.00000	1.22027	5.47973	-179.00000
-18.00000	0.98133	1.01193	171.00000	0.62042	2.30000	-25.00000
224.00000	0.95057	1.14550	28.00000	0.57138	4.60544	7.00000
177.00000	1.07984	1.03231	210.00000	1.00344	3.10448	-23.00000
-6.00000	1.21979	0.94135	130.00000	1.40185	1.99032	-66.00000
223.00000	1.16092	0.97239	331.00000	1.03233	1.49247	43.00000
-295.00000	0.77476	0.91623	-394.00000	0.65308	0.17849	69.00000
52.00000	0.66055	1.36935	676.00000	2.81169	16.45833	-15.00000
102.00000	1.06162	1.02721	-99.00000	0.49991	1.68613	15.00000
14.00000	0.87724	0.77383	-586.00000	1.05870	0.48364	-85.00000
73.00000	0.91530	1.29880	222.00000	1.10993	1.74118	-13.00000
42.00000	0.85935	1.35294	619.00000	0.47363	2.37500	-155.00000
27.00000	0.78138	1.40116	124.00000	1.82320	3.88189	106.00000
-79.00000	1.12311	1.19967	-138.00000	1.61896	3.83784	159.00000
15.00000	1.18856	1.02632	111.00000	0.92780	1.19804	-2.00000
-58.00000	0.57848	1.92945	-1058.00000	3.15236	1.18794	-375.00000
294.00000	1.22916	0.95604	-584.00000	3.21074	12.66667	-23.00000
-42.00000	1.60160	0.90741	667.00000	0.52278	0.84591	86.00000

Table 1 continued

Crossing 1PositionChange	Crossing 2PositionChange	Crossing 3PositionChange	adrenaline	amiloride	amiodarone	bretiylium
-61.00000	-129.00000	-96.00000	1	0	0	0
-581.00000	185.00000	398.00000	0	1	0	0
-38.00000	-55.00000	-110.00000	0	0	1	0
-53.00000	-163.00000	-27.00000	0	0	0	1
13.00000	70.00000	213.00000	0	0	0	0
10.00000	14.00000	110.00000	0	0	0	0
3.00000	134.00000	248.00000	0	0	0	0
140.00000	169.00000	198.00000	0	0	0	0
63.00000	133.00000	97.00000	0	0	0	0
66.00000	249.00000	240.00000	0	0	0	0
-233.00000	-284.00000	-132.00000	0	0	0	0
-17.00000	-3.00000	346.00000	0	0	0	0
-6.00000	32.00000	-77.00000	0	0	0	0
6.00000	-5.00000	199.00000	0	0	0	0
-8.00000	28.00000	57.00000	0	0	0	0
55.00000	128.00000	295.00000	0	0	0	0
-9.00000	-6.00000	158.00000	0	0	0	0
2.00000	31.00000	-46.00000	0	0	0	0
0.00000	19.00000	27.00000	0	0	0	0
-9.00000	-8.00000	1289.00000	0	0	0	0
72.00000	175.00000	258.00000	0	0	0	0
-6.00000	-30.00000	-194.00000	0	0	0	0

brevetoxin	charybdotoxin	coltrimazole	dids	diltiazem	dobutamine	fourap
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	0	0	0	0
0	1	0	0	0	0	0
0	0	1	0	0	0	0
0	0	0	1	0	0	0
0	0	0	0	1	0	0
0	0	0	0	0	1	0
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	1	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

Table 1 continued

imperialine	labetalol	lidocaine	minoxidil	norepinephrine	pinacidil	sotalol
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	0	0	0	0
0	1	0	0	0	0	0
0	0	1	0	0	0	0
0	0	0	1	0	0	0
0	0	0	0	1	0	0
0	0	0	0	0	1	0
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

tea	tetrodotoxin	thapsigargin	verapamil
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
0	1	0	0
0	0	1	0
0	0	0	1

Table 2 (a) Drug effect recognition matrix output (part)

o RECOGNIZING		adrenalin	amiodarone	bretylium	brevetoxin	charybdo	coltrimaz	DIDS
δ	e	ne	n	tox	ole			
adrenaline		0.000	0.064	0.148	0.236	0.000	-0.742	
amiodarone		0.000	0.016	-0.071	-0.195	0.000	0.582	
bretylium		0.000	0.000	-0.190	0.105	0.000	0.526	
brevetoxin		0.000	0.000	0.000	0.000	0.000	0.000	
charvbdotoxin		0.000	0.000	0.000	0.000	0.000	0.000	
coltrimazole		0.000	0.000	-0.011	0.100	0.083	0.387	
DIDS		0.000	0.000	0.000	0.000	0.000	0.000	
diltiazem		0.000	-0.390	0.269	0.366	0.000	0.318	
dobutamine		0.000	-0.133	-0.022	-0.150	0.000	-0.606	
4-aminopyridine		0.000	-0.118	0.173	-0.026	0.000	-0.682	
imperialine		0.000	0.000	0.000	0.000	0.000	0.000	
labetalol		0.000	0.323	-0.292	0.148	0.000	0.828	
lidocaine		0.000	0.069	0.295	0.032	0.000	0.148	
minoxidil		0.000	0.000	0.000	0.000	0.000	0.000	
norepinephrine		0.000	0.058	0.082	0.039	0.000	-0.047	
pinacidil		0.000	0.000	0.000	0.000	0.000	0.000	
sotalol		0.000	0.174	-0.094	0.181	0.000	-0.052	
TEA+		0.000	0.000	0.000	0.000	0.000	0.000	
tetrodotoxin		0.000	0.121	0.171	0.087	0.000	0.086	
thapsigargin		0.000	-0.066	0.398	0.022	0.000	0.127	
verapamil		0.000	0.000	0.000	0.000	0.000	0.000	

Table 2 (b) Drug effect recognition matrix output (part)

o RECOGNIZING		diltiazem	dobutami	4-	imperialin	labetalol	lidocaine	minoxidil
δ	e	ne	n	tox	ole			
adrenaline		0.000	0.000	-0.484	0.000	0.000	-0.005	
amiodarone		0.000	0.000	0.234	0.000	0.000	-0.041	
bretylium		0.000	0.000	0.580	0.000	0.000	0.190	
brevetoxin		0.000	0.000	0.000	0.000	0.000	0.000	
charvbdotoxin		0.000	0.000	0.000	0.000	0.000	0.000	
coltrimazole		0.000	0.000	0.167	0.000	0.000	0.232	
DIDS		0.000	0.000	0.000	0.000	0.000	0.000	
diltiazem		0.000	0.000	-0.606	0.000	0.000	-0.218	
dobutamine		0.000	0.000	0.142	0.000	0.000	-0.032	
4-aminopyridine		0.000	0.000	0.001	0.000	0.000	0.048	
imperialine		0.000	0.000	-0.000	0.000	0.000	0.000	
labetalol		0.000	0.000	0.004	0.000	0.000	-0.005	
lidocaine		0.000	0.000	0.126	0.000	0.000	-0.012	
minoxidil		0.000	0.000	0.000	0.000	0.000	-0.016	
norepinephrine		0.000	0.000	0.014	0.000	0.000	0.071	
pinacidil		0.000	0.000	0.000	0.000	0.000	0.000	
sotalol		0.000	0.000	0.010	0.000	0.000	0.218	
TEA+		0.000	0.000	0.000	0.000	0.000	0.000	
tetrodotoxin		0.000	0.000	0.470	0.000	0.000	0.238	
thapsigargin		0.000	0.000	0.293	0.000	0.000	0.322	
verapamil		0.000	0.000	0.000	0.000	0.000	0.000	

Table 2 (c) Drug effect recognition matrix output (part)

o RECOGNIZING	norepinep hrine	pinacidil	sotalol	TEA+	tetrodotox in	thapsigarg in	verapamil
adrenaline	0.000	0.453	0.000	0.635	0.000	0.000	0.783
amiodarone	0.000	-0.653	0.000	-0.462	0.000	0.000	-0.295
bretvium	0.000	0.682	0.000	0.213	0.000	0.000	0.079
brevetoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
charvbdotoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
coltrimazole	0.000	0.378	0.000	0.261	0.000	0.000	0.191
DIDS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
diltiazem	0.000	-0.516	0.000	0.289	0.000	0.000	0.495
dobutamine	0.000	0.439	0.000	0.123	0.000	0.000	-0.263
4-aminovridine	0.000	-0.145	0.000	0.064	0.000	0.000	-0.055
imperialine	0.000	0.000	0.000	0.000	0.000	0.000	0.000
labetalol	0.000	-0.426	0.000	-0.610	0.000	0.000	-0.075
lidocaine	0.000	0.279	0.000	0.199	0.000	0.000	-0.020
minoxidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
norepinephrine	0.000	0.085	0.000	0.014	0.000	0.000	-0.117
pinacidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
sotalol	0.000	0.398	0.000	0.160	0.000	0.000	0.466
TEA+	0.000	0.000	0.000	0.000	0.000	0.000	0.000
tetrodotoxin	0.000	0.330	0.000	0.036	0.000	0.000	-0.221
thapsigargin	0.000	-0.166	0.000	0.185	0.000	0.000	0.144
verapamil	0.000	0.000	0.000	0.000	0.000	0.000	0.000